

Dobson Dunavant

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Education

Bachelor of Computer Science – College of Charleston, GPA: 3.8/4.0

May 2024

Bachelor of Accounting – College of Charleston

Dec 2018

Experience

Software Engineer, Savvas Learning Company

May 2024 – Present

- Developed full-stack solutions for Outlier.org, an online college course platform, using React, Node.js, PostgreSQL, Jest, and AWS in an Agile environment
- Implemented caching solutions using Redis, significantly improving user load times in data-heavy UIs
- Led WCAG2.2AA accessibility audit across React frontends, enhancing platform accessibility for all users
- Contributed to planning and design of Google Cloud to AWS service migrations

Software Engineering Co-Op, Mercedes-Benz, IFA Group

Aug 2023 – May 2024

- Led a team of 4 to develop a portable warehouse inventory scanning system using React, Flask, AWS, PostgreSQL, OpenCV, Tesseract OCR, and YOLOv8 to accurately track inventory movements in real-time
- Authored System Requirements and Design Specification documents by collaborating with warehouse stakeholders, leading to effective planning and execution
- Delivered an end-to-end system within 6 months, including real-time updates via RESTful API communications to SAP API endpoints, leading to previously non-existent inventory awareness

Software Engineering Intern, Savvas Learning Company

May 2023 – Aug 2023

- Developed full-stack solutions for Savvas Realize, a large-scale K-12 ed-tech platform, using Angular micro-frontends, GraphQL, RxJS, Spring Boot, PostgreSQL, Storybook, and Jest
- Optimized GraphQL API calls by minimizing over-fetching data and streamlining query logic
- Won summer hackathon by leading the development of a PowerBI student insights dashboard
- Improved API test coverage by 19% by Karate CI/CD integration (measured by JaCoCo metrics)
- Built an all-in-one team Confluence knowledge base to improve developer autonomy

Data Engineering Intern, Vision Software Solutions

Sept 2022 – Jan 2023

- Migrated credit scoring ETL tasks into a microservices architecture using Docker, Terraform, and Azure (Functions, Data Factory, Cosmos DB)
- Optimized Azure Functions APIs and Cosmos DB SQL queries by fine-tuning parameters and caching, reducing user load times by 9%
- Dockerized credit scoring ETL tasks within Azure Data Factory, enhancing scalability, reliability, and deployment speed while improving data processing efficiency

Skills

Languages: TypeScript, JavaScript, Java, Python, SQL, HTML, CSS

Frameworks: Angular, React, Next.js, Spring, Django, Express.js, Storybook

Libraries: Axios, GraphQL, RxJS, Jest, Selenium, Pandas, PowerBI, Tableau, PostgreSQL, MongoDB

Technologies: AWS, Azure, Firebase, Docker, Terraform, Node.js, Postman, Git, Jira